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NOTICE OF ALLOWANCE AND FEE(S) DUE

324

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10/01/2008

JoAnn Villamizar Ciba Corporation/Patent Department 540 White Plains Road P.O. Box 2005 Tarrytown, NY 10591 EXAMINER

HAMMER, KATIE L

ART UNIT PAPER NUMBER

4131

DATE MAILED: 10/01/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/594,047	09/25/2006	Victor Paul Eliu	HC/1-23041/A/PCT	8952	

TITLE OF INVENTION: CATIONIC IMIDAZOLAZO DYES CONTAINING A 2,5-DIAMINOPHENYL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	01/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance on herwise in Block 1, by (rders and notification a) specifying a new co	of m orresp	pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence ad ate "FEE ADDRI	ldress as ESS" for
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P.O. Box 2005 Tarrytown, NY	10501			(Depositor's name) (Signature)					
Tarrytown, 181	10391								
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	ГOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION	NO.
10/594,047	09/25/2006		Victor Paul Eliu			НС	/1-23041/A/PCT	8952	
		DLAZO DYES CONTAIN							
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU.	E FEE	TOTAL FEE(S) DUE	DATE DUI	己
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PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assign ssignment. and STATE OR C	COUNT	RY)		
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			overpayment, to I	epos	it Account Number	er	(enclose ar	extra copy of this	form).
5. Change in Entity Sta a. Applicant claim	i tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no	long	er claiming SMA	LL ENT	TITY status. See 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other th	_	_				party in
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10/594,047	(09/25/2006	Victor Paul Eliu	HC/1-23041/A/PCT 8952	
324	7590	10/01/2008		EXAM	INER
JoAnn Villam	izar		HAMMER, KATIE L		
Ciba Corporatio		Department	ART UNIT	PAPER NUMBER	
540 White Plain P.O. Box 2005 Tarrytown, NY				4131 DATE MAILED: 10/01/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 311 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 311 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	 10/594,047	ELIU ET AL.			
Notice of Allowability	Examiner	Art Unit			
	 KATIE HAMMER	4131			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. ↑ This communication is responsive to the application paper.	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due cot subject to withdrawal from issue a	urse. THIS It the initiative		
<u> </u>	s med 3/20/00, 150 med 12	722700 dila tilo paper mea 173/200	<u> </u>		
2. 🔀 The allowed claim(s) is/are <u>1-22</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.	·			
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application	n from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			TICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the		
Attachment(s)	5 Notice of I	nformal Datant Application			
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application Summary (PTO-413),			
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No	./Mail Date s Amendment/Comment			
Paper No./Mail Date <u>12/22/2006</u>	_				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		8.			

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tyler R. Stevenson on September 22, 2008.

The application has been amended as follows:

All NMR data charts in the specification starting at page 25 have been changed from commas to decimal points.

Page 25, first column of the chart has been changed from having no label to being labeled as "Chemical Shift δ (ppm)", the second column of the chart has been labeled as "Splitting", the third column of the chart has been labeled as "Peak Integration", and the fourth column of the chart has been labeled as "Type of Compound";

Page 26 of the specification, line 2 of the second chart, "uberlagert" has been changed to --overlaid--;

Page 27, line 2 of the chart, "uberlagert" has been changed to -overlaid--;

Page 28, line 2 of the first chart, "uberlagert" has been changed to -overlaid--;

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Page 3

Page 31, line 2 and line 6 of the second chart, "uberlagert" has been changed to —overlaid--;

Page 32, line 2 of the chart, "uberlagert" has been changed to -overlaid--;

Page 33, line 2 of the first chart and line 2 of the second chart, "uberlagert" has been changed to —overlaid--;

Page 38, Formulation Examples "Compositions FC-FG are prepared" has been changed to --Compositions FC-FG are prepared (values in the chart are given in parts by weight)--

Page 40 of the specification,

Row 7, "compound of formula (202)" has been changed to --compound of formula (102)--,

Row 8, "compound of formula (203)" has been changed to --compound of formula (103)--,

Row 9, "compound of formula (10)" has been changed to --compound of formula (104)--;

Page 58, line 1 of composition chart, "Composition" has been changed to – Composition (values in the chart are given in parts by weight)--

In claim 13, line 2, "(19)" has been changed to -- (17) --;

In claim 13, line 5 (step (a)), "(19a)" has been changed to --(17a)--;

In claim 13, line 6 (step (b)), "(19b)" has been changed to -- (17b)--

In claim 13, line 7 (step (b)), "(19c)" has been changed to -- (17c)--

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In claim 13, line 8 (step (c)), "(19c)" has been changed to -- (17c)--, and "(19d)" has been changed to -- (17d) --;

In claim 13, line 14 (after step(e)), "(19a)" has been changed to --(17a)--, "(19b)", has been changed to --(17b)--, "(19c)" has been changed to --(17c)--, "(19d)" has been changed to --(17d)--, "(19e)" has been changed to --(17e)--, and "(19)" has been changed to --(17)--;

In claim 22, "according to claim (19)" has been changed to --according to claim (21)--.

Allowable Subject Matter

Claims 1-22 are allowed.

The following is an examiner's statement of reasons for allowance:

The above amendments to the claims were to correct minor informalities and for consistency of terminology. The amendments were not made to avoid a prior art rejection.

The present claims are allowable over the closest references: Mockli (US 6,762,287), Eliu et al. (US 2006/0179586), and Eliu et al. (GB 2,412,916).

Mockli '287 disclose cationic imidazole azo dyes dyes of formula

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However, Mockli '287 is silent as to the presence of another nitrogen on the phenyl ring and also does not disclose the claimed 2,5- positioning of the nitrogens from the azo linkage. Thus, Mockli '287 does not teach or fairly suggest the claimed dye of instant claims 1-11 nor the process for synthesizing this dye found in instant claims 12-13, nor the composition and applications found in claims 14-17.

Page 5

Eliu et al. '586 disclose a cationic dye of formula

However, Eliu et al. '586 are silent on the incorporation of a 2,5-diamino on the phenyl ring and a carboxyl group on the 2-N-R3 and -R4 group. Thus, Eliu et al. do not teach or fairly suggest the claimed dye of independent instant claims 1 or 11 which requires a 2,5-diaminophenyl and the carboxyl group.

Eliu et al. '916 disclose the starting material synthesis of compounds and alkylating the intermediate compound with an alkylating agent (page 19 of the spec).

Eliu et al. '916 synthesizes a final product compound with sulfide linkages between two diazo compounds (Example A1, page 47), which are not present in the instant claims.

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However, Eliu et al. '916 does not teach the 2,5-diaminophenyl compound nor the carboxyl groups on the one nitrogen. Thus, Eliu et al. '916 does not teach or fairly suggest the claimed dye or complete synthesis process found in the instant application.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KATIE HAMMER whose telephone number is (571)270-7342. The examiner can normally be reached on Monday to Thursday, 9:00am EST to 7:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R. Sample/ Supervisory Patent Examiner Art Unit 4131

KLH